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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/980,080	06/20/2003	Herve Jouishomme	PGI-1	PGI-1 5350	
7	590 04/25/2005		EXAMINER		
J Wayne Anderson			AFREMOVA, VERA		
Station B PO Box 1266 Ottawa, ON K1P 5R3			ART UNIT	PAPER NUMBER	
			1651		
CANADA			DATE MAILED: 04/25/200	5	

Please find below and/or attached an Office communication concerning this application or proceeding.

· ·		Application No.	Applicant(s)				
		09/980,080	JOUISHOMME ET AL.				
	Office Action Summary	Examiner	Art Unit	<del></del>			
		Vera Afremova	1651				
Period fo	The MAILING DATE of this communicat or Reply	ion appears on the cover sheet	with the correspondence address	•			
THE - Exte after - If the - If NO - Failt Any	ORTENED STATUTORY PERIOD FOR MAILING DATE OF THIS COMMUNICA' nsions of time may be available under the provisions of 37 SIX (6) MONTHS from the mailing date of this communical period for reply specified above is less than thirty (30) date of the provided provided to reply is specified above, the maximum statutor are to reply within the set or extended period for reply will, the provided by the Office later than three months after the patent term adjustment. See 37 CFR 1.704(b).	TION.  CFR 1.136(a). In no event, however, may ation.  ys, a reply within the statutory minimum of to y period will apply and will expire SIX (6) Moy statute, cause the application to become	a reply be timely filed  hirty (30) days will be considered timely.  ONTHS from the mailing date of this communicat  ABANDONED (35 U.S.C. § 133).	tion.			
Status							
1)⊠	Responsive to communication(s) filed o	n <u>10/03/2003</u> .					
2a)□	This action is <b>FINAL</b> . 2b)[	☐ This action is non-final.					
3)□	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
Disposit	ion of Claims						
5)□	Claim(s) <u>1-55</u> is/are pending in the apple 4a) Of the above claim(s) is/are with Claim(s) is/are allowed.  Claim(s) is/are rejected.  Claim(s) is/are objected to.  Claim(s) <u>1-55</u> are subject to restriction a	vithdrawn from consideration.					
Applicat	ion Papers						
9)[	9) The specification is objected to by the Examiner.						
10)□	))☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.						
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11)□	Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.						
Priority (	ınder 35 U.S.C. § 119						
a)	Acknowledgment is made of a claim for the All b) Some * c) None of:  1. Certified copies of the priority documents of the priority documents. Copies of the certified copies of the application from the International See the attached detailed Office action for the certification from the International see the attached detailed Office action for the International see the attached detailed Office action for the International see the attached detailed Office action for the International see the attached detailed Office action for the International see the attached detailed Office action for the International see the attached detailed Office action for the International see the attached detailed Office action for the International see the attached detailed Office action for the International see the attached detailed Office action for the International see the attached detailed Office action for the International see the attached detailed Office action for the International see the attached detailed Office action for the International see the attached detailed Office action for the International see the attached detailed Office action for the International see the attached detailed Office action for the International see the International se	cuments have been received. cuments have been received in the priority documents have been Bureau (PCT Rule 17.2(a)).	Application No en received in this National Stage				
Attachmen	t(s)						
1) Notice 2) Notice	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-	4) Interview	v Summary (PTO-413) o(s)/Mail Date				
3) 🔲 Infor	e of Draftsperson's Patent Drawing Review (PTO- nation Disclosure Statement(s) (PTO-1449 or PTC r No(s)/Mail Date		f Informal Patent Application (PTO-152)				

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## **DETAILED ACTION**

Claims 1-55 are pending.

## Restriction

Restriction is required under 35 U.S.C. 121 and 372.

This application contains the following inventions or groups of inventions that are not so linked as to form a single general inventive concept under PCT Rule 13.1.

In accordance with 37 CFR 1.499, applicant is required, in reply to this action, to elect a single invention to which the claims must be restricted.

Group I, claim(s) 1-42, drawn to a mammalian tissue model comprising cell of at least two different phenotypes wherein cells of at least one phenotype form 3D aggregates.

Group II, claim(s) 43-48, drawn to a first method of using the claimed model for screening antitumor substance.

Group III, claim(s) 49-51, drawn to a second method of using the claimed model for screening a substance modulating gap junction intercellular communication.

Group IV, claim(s) 52-55, drawn to a third method of using mammalian tissue simulation model for predicting biological characteristics.

The inventions listed as Groups I- IV do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, they lack the same or corresponding special technical features for the following reasons:

This application contains claims drawn to more than one of permissible combinations of categories of inventions such as more than one product and process of use of said product Furthermore, a "special technical feature" (that defines a contribution which each of the claimed

inventions, considered as a whole, makes over the prior art) is known in the prior art. For example: US 5,518,915 discloses a 3D mammalian tissue model comprising cells of different phenotypes. Thus, unity of inventions is lacking. See MPEP 1850. 37 CFR 1.475.

Applicant is advised that the reply to this requirement to be complete must include an election of the invention to be examined even though the requirement be traversed (37 CFR 1.143).

## Election of species

This application contains claims (within the instant group I) directed to more than one species of the generic invention. These species are deemed to lack unity of invention because they are not so linked as to form a single general inventive concept under PCT Rule 13.1.

The species are listed below. The claims are deemed to correspond to the species listed above in the following manner:

The cell series species are as follows: cells of "first" phenotype that are 1) endothelial cells (claims 18-24); 2) stromal cells (claims 25-30) and 3) epithelial cells (claims 33-36).

The support series species are as follows: 1) tissue model comprising a solid support (claims 4 and 5) and 2) tissue model in the absence of solid support (claim 3).

The chemical compound series species are as follows: 1) tissue model comprising mitomycin (claim 39); 2) tissue model comprising phototoxic agent (claims 40-43).

The species of cell, support and chemical compound series listed above do not relate to a single general inventive concept under PCT Rule 13.1 because, under PCT Rule 13.2, the species lack the same or corresponding special technical features for the following reasons: A "special technical feature" (that defines a contribution which each of the claimed inventions, considered

as a whole, makes over the prior art) is known in the prior art. For example: US 5,518,915 discloses a 3D mammalian tissue model comprising solid matrix support (col. 6, line 22-25), various cells including epithelial cells (col. 5, line 56) and additional chemical compounds (col. 5, lines 44-47).

Applicant is required, in reply to this action, to elect a single species in each series (cell, support and chemical compound) to which the claims shall be restricted if no generic claim is finally held to be allowable. The reply must also identify the claims readable on the elected species, including any claims subsequently added. An argument that a claim is allowable or that all claims are generic is considered non-responsive unless accompanied by an election.

Upon the allowance of a generic claim, applicant will be entitled to consideration of claims to additional species which are written in dependent form or otherwise include all the limitations of an allowed generic claim as provided by 37 CFR 1.141. If claims are added after the election, applicant must indicate which are readable upon the elected species. MPEP § 809.02(a).

The following claim(s) in the Group I are generic: 1, 2, 6-17, 31, 32, 37 and 38.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Vera Afremova whose telephone number is (571) 272-0914. The examiner can normally be reached from Monday to Friday from 9.30 am to 6.00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Wityshyn can be reached at (571) 272-0926.

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The fax phone number for the TC 1600 where this application or proceeding is assigned is (571) 273-8300.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology center 1600, telephone number is (571) 272-1600.

Vera Afremova

AU 1651

April 20, 2005

VERA AFREMOVA

V. Sfremou

PRIMARY EXAMINER